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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=9; day=21; hr=11; min=11; sec=59; ms=20; ]

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\*\*\*\*\*

Reviewer Comments:

<150> 10/509,249

<151> 2004-09-28

Please remove these lines, since they are not prior application data.

<210> 30

<211> 39

<212> DNA

<213> artificial synthesized peptide sequence

<220>

<223> test fused

<400> 30

The above <213> response is invalid, per 1.823 of the Sequence Rules. The only valid responses are: the Genus species of the organism, "Artificial Sequence", or "Unknown". "Artificial Sequence" and "Unknown" require explanation in the <220>-<223> section; please clearly give the source of the genetic material. FYI: this is not a peptide sequence. Same error in Sequence 31.

Please ensure that all explanations of "Artificial Sequence" give the source of the genetic material.

\*\*\*\*\*

Application No: 10509249

Version No: 6.0

**Input Set:****Output Set:****Started:** 2009-09-03 15:42:15.339**Finished:** 2009-09-03 15:42:22.674**Elapsed:** 0 hr(s) 0 min(s) 7 sec(s) 335 ms**Total Warnings:** 245**Total Errors:** 0**No. of SeqIDs Defined:** 245**Actual SeqID Count:** 245

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W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
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W 213	Artificial or Unknown found in <213> in SEQ ID (5)
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W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
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W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2009-09-03 15:42:15.339  
**Finished:** 2009-09-03 15:42:22.674  
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**No. of SeqIDs Defined:** 245  
**Actual SeqID Count:** 245

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (30)
W 402	Undefined organism found in <213> in SEQ ID (31)

# SEQUENCE LISTING

<110> Japan Science and Technology Agency  
Kuroda, Shunichi  
Tanizawa, Katsuyuki  
Okajima, Toshihide  
Kondo, Akihiko  
Ueda, Nasakazu  
Seno, Masahura

<120> THERAPEUTIC DRUG USING ANTIBODY-DISPLAYING HOLLOW PROTEIN  
NANOPARTICLES AND HOLLOW PROTEIN NANOPARTICLES

<130> 12480-000067/US

<140> 10509249

<141> 2004-09-28

<150> 10/509,249

<151> 2004-09-28

<160> 245

<170> PatentIn version 3.4

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<212> DNA

<213> artificial sequence

<220>

<223> Synthesized Oligonucleotide

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<223> Synthesized Oligonucleotide

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39

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<223> Synthesized Oligonucleotide

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<210> 28

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<212> PRT

<213> artificial sequence

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<210> 29

<211> 116

<212> PRT

<213> artificial sequence

<220>

<223> artificial synthesized peptide sequence

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Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln

20 25 30

Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala

35 40 45

Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val Asp Asn Lys Phe Asn

50 55 60

Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu

65 70 75 80

Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro

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<223> test fused

<400> 30  
gctgctgctg ctgctgctag aagaagaaga agaagaaga 39

<210> 31  
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<213> Artificial Sequence Fused Peptide

<220>  
<223> 21-153 + ZZ (serotype y) sequence

<400> 31  
gctgctgctg ctgctgctag aagaagaaga agaagaaga 39

<210> 32  
<211> 378  
<212> PRT  
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<220>  
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His Gln Leu Asp Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn  
20 25 30

Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu  
35 40 45

Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys  
50 55 60

Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu

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Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu						
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Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser						
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Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro						
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Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe						
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Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn						
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Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro						
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Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr						
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	260		265		270	
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Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile						
	290		295		300	

Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val  
 305 310 315 320

Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val  
 325 330 335

Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr  
 340 345 350

Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu  
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Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile  
 370 375

<210> 33  
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 <212> DNA  
 <213> artificial sequence

<220>  
 <223> 21-153 (Q129R) + ZZ (serotype y) sequence

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<211> 378

<212> PRT

<213> artificial sequence

<220>

<223> Protein corresponding to 21-153 (Q129R) + ZZ (serotype y)  
sequence

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His Gln Leu Asp Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn  
20 25 30

Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu  
35 40 45

Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys  
50 55 60

Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu  
65 70 75 80

Asn Asp Ala Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln  
85 90 95

Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu  
100 105 110

Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser  
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Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro

130

135

140

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 145 150 155 160

Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg  
 165 170 175

Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn  
 180 185 190

Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro  
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Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr  
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Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu  
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Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu  
 245 250 255

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Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser  
 275 280 285

Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile  
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 305 310 315 320

Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val  
 325 330 335

Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr  
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<210> 35

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<212> DNA

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<223> 21-153 (G145R) + ZZ (serotype y) sequence

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<210> 36

<211> 378

<212> PRT



$\langle 220 \rangle$ 

<400> 36

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